Link gift

Fredericks, Munro & Co.

MANUFACTURERS OF

Fire Brick

FARRANDSVILLE,

PA.

REPRESENTED BY
W. T. MARTIEN & CO.,
133 SOUTH FRONT STREET,
PHILADELPHIA.

THEO. LEONHARDT & SON,
324 and 326 Chestnut St.
PHILADELPHIA

TD CAT 1884 Fredericks, Munro.
ATHENAEUM OF PHILADELPHIA
Gift of:
Robert Linck

Illustrated Catalogue

—OF—

Fredericks, Munro & Co.

MANUFACTURERS OF

FIRE BRICK

—FOR—

BLAST FURNACES,

ROLLING MILLS AND STEEL WORKS

OFFICE AND WORKS:

FARRANDSVILLE, CLINTON COUNTY, PENNA.

CAPACITY of WORKS, 5,000,000 YEARLY.

ESTABLISHED 1860.
FOURTH EDITION, 1884.

TO THE TRADE.

The wants of consumers of Fire Brick demand an improved form in presenting the lines of goods carried by manufacturers, and to meet this want we place before our customers and the trade in general a revised Catalogue of the shapes we carry in stock.

In ordering Fire Brick it is best always to state the purpose for which they are required. The variety of uses for which Fire Brick are now required induce us to separate, screen and boil our clays in order to produce the following qualities, expressly adapted to the purposes named.

We have branded our standard shapes as follows:

ACME, for service in crucible, open hearth and other steel works, glass and malleable iron works, where refractory brick is essential.

EUREKA is a rolling mill brick which has given the highest satisfaction. We also make Hearths and Boshes of this mixture.

CLINTON is a hard friction Brick made for great wear, especially adapted for use in furnace linings, cupolas, boiler arches, sugar refineries and pulp mills.

Our furnace blocks possess the desirable feature of being uniform in size, pressed on edge, thereby insuring close joints in laying up.

The six-foot seam of Fire Clay from which our brick are produced with the mechanical labor, gives us the qualities to manufacture the several grades stated above, and induce us to warrant the brick equal to the best manufactured. The chemical analysis of our clays by J. Blodget Britton, of the Iron Masters' Laboratory, is sufficient evidence of their refractory nature.

We give close attention to the manufacture of irregular or useful shapes, and insure entire satisfaction in executing the work.

Relying on your desire for a Fire Brick expressly adapted to your wants, we will be glad to quote prices.

Our works have an annual capacity of 5,000,000 Brick, and we are able to fill large orders on short notice.

Thankful for your past favors,

Respectfully,

FREDERICKS, MUNRO & CO.

#24522198
10-9-91
6-15-2004
Td Cat
1884

INDEX.

	PAGE
Fire Clays	4
Nine-inch Shapes	5-10
Cupola Shapes	10-14
Rolling Mill Shapes	15
Blast Furnace Bosh	16-20
Blast Furnace Bottoms	21
Siemen's Steel Furnace Blocks	22-26
Glass Works	27
Fire Place Shapes	28
Locomotive Fire Box Tiles	29
Coke Oven	30
Slabs, Floor Tile	31
Feed Hole Blocks	32

FIRE CLAYS.

ANALYSIS OF

FARRANDSVILLE FIRE CLAY,

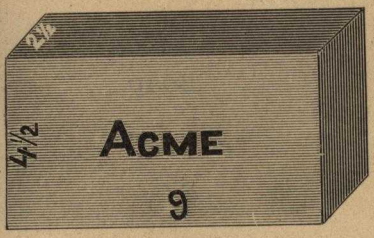
By J. BLODGET BRITTON,

Iron Master's Laboratory,

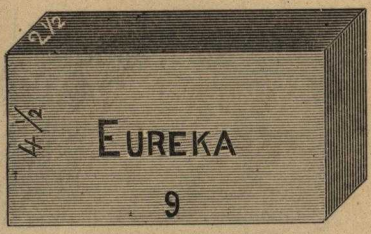
Philadelphia, December, 1878.

Silica,	**45.26**
Alumina,	**37.85**
Sesqus Oxide of Iron,	**2.03**
Lime,	**.08**
Magnesia,	**.02**
Potash,	**1.26**
Water and Organic Matter,	**13.30**
Oxide of Maganese and Loss,	**.20**
	100.00

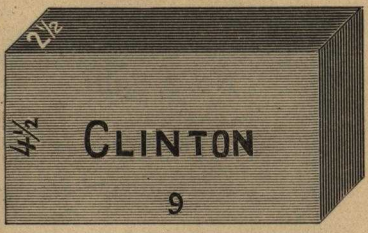
Nine Inch Shapes.



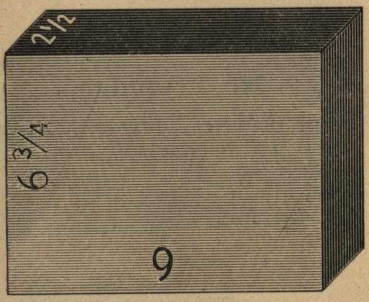
9 inch Brick.



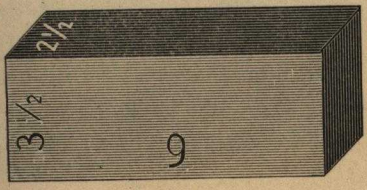
9 inch Brick.



9 inch Brick.

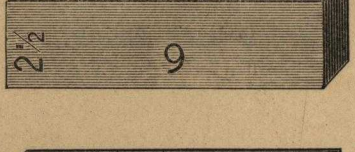


Large 9 inch.

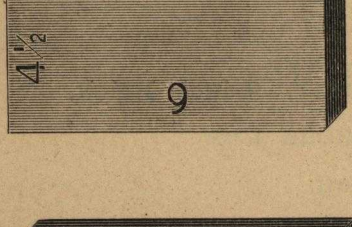


Small 9 inch.

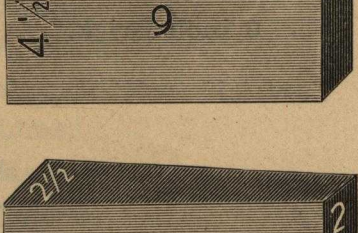
Nine Inch Shapes.



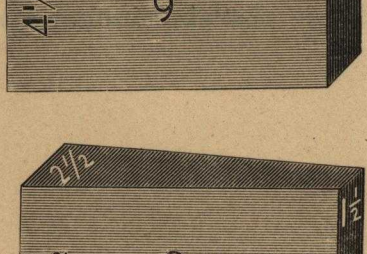
Soap.



No. 1, Split.



No. 2, Split.



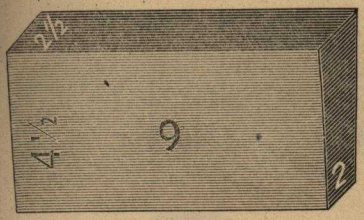
No. 1, Wedge.

5 ft. Diameter.—102 Brick to the Circle.

No. 2, Wedge.

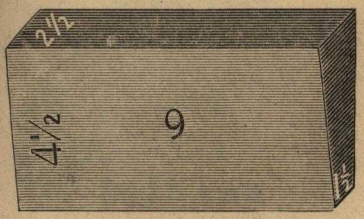
2 ft. 6 in. Diameter.—63 Brick to the Circle.

Nine Inch Shapes.



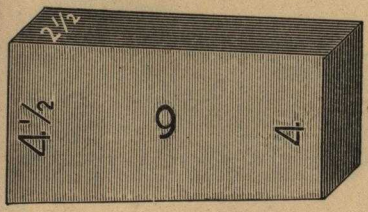
No. 1, Arch.

4 ft. Diameter inside.



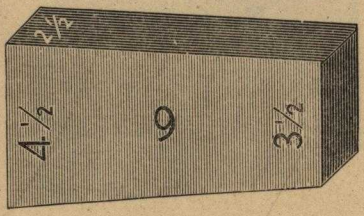
No. 2, Arch.

2 ft. Diameter inside.



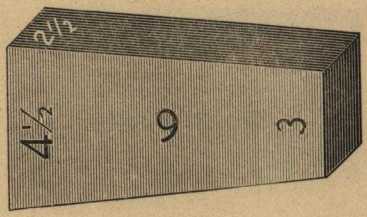
No. 1, Key.

12 ft. Diameter.
112 Brick to the Circle.



No. 2, Key.

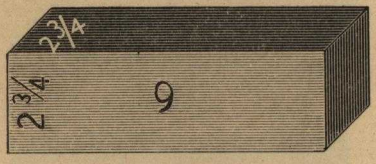
6 ft. Diameter.
65 Brick to the Circle.



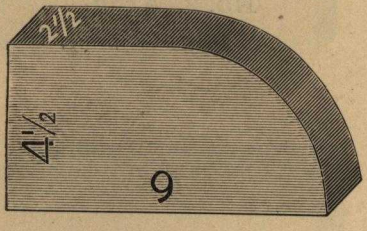
No. 3, Key.

3 ft. Diameter.
41 Brick to the Circle.

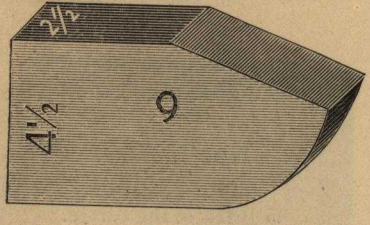
Nine Inch Shapes.



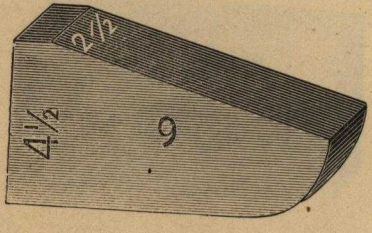
Checker.



No. 1, Jamb.

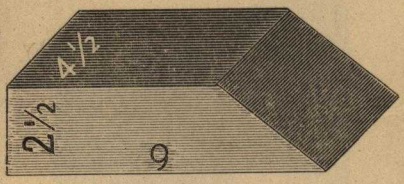


No. 2, Jamb.

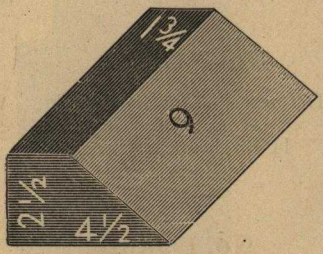


No. 3, Jamb.

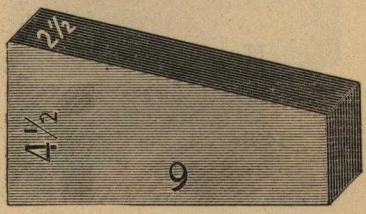
Nine Inch Shapes.



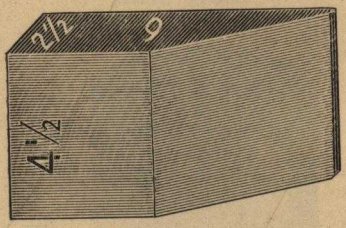
No. 1, (End) Skew.



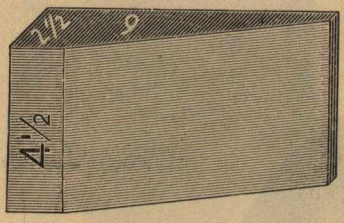
No. 2, (Side) Skew.



No. 3, (Edge) Skew.

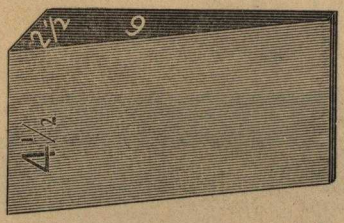


No. 1, Neck.

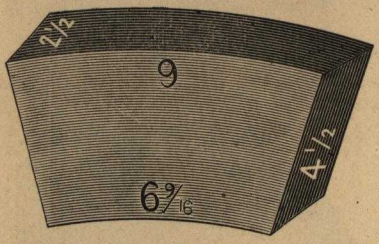


No. 2, Neck.

Nine Inch Shapes.

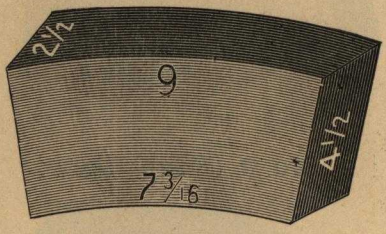


No. 3, Neck (or Point).



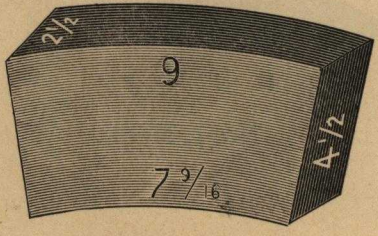
No. 1, Circle.

Diameter, 33 inches outside,
24 inches inside.
11 Brick to the Circle.



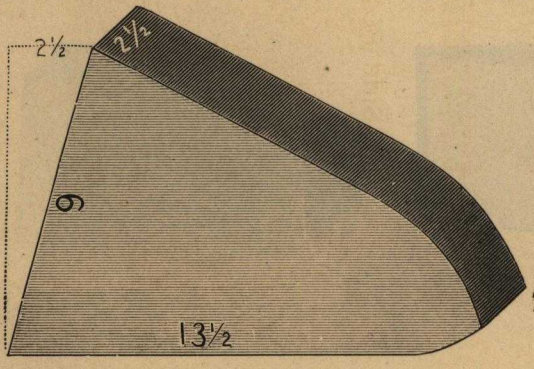
No. 2, Circle.

Diameter, 45 inches outside,
36 inches inside.
14 Brick to the Circle.



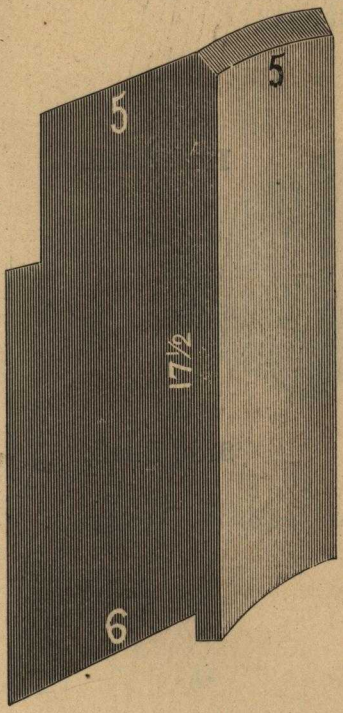
No. 3, Circle.

Diameter, 57 inches outside,
48 inches inside.
20 Brick to Circle.

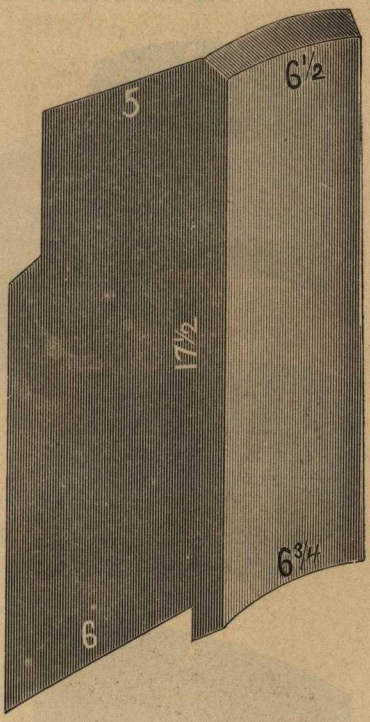


13 inch Jamb.

McKenzie Cupola Shapes.

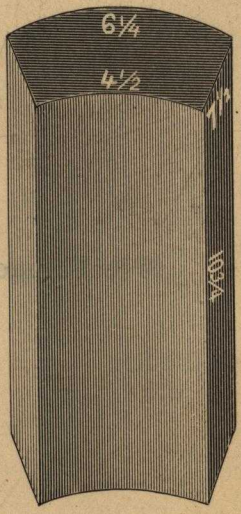


Side Bed.

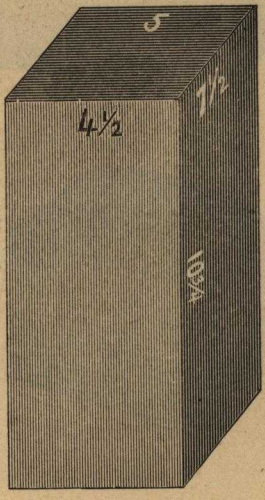


End Bosh.

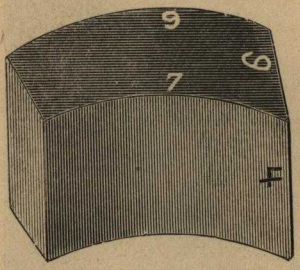
End Bed.



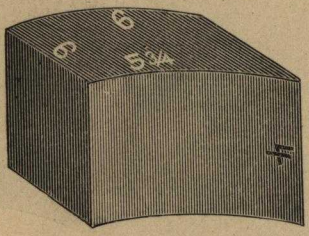
Side Bed.



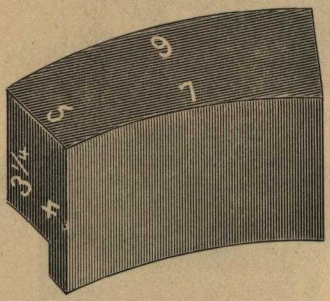
McKenzie Cupola Shapes.



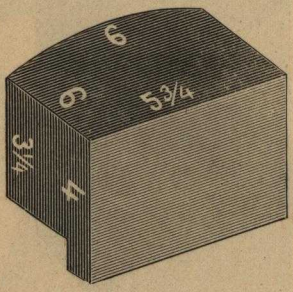
End Shell.



Side Shell.

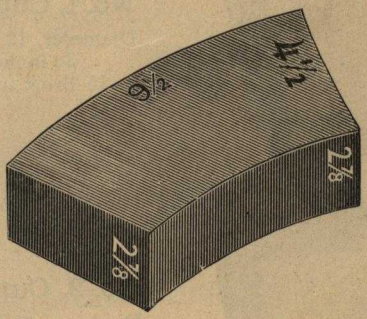


End Flange.



Side Flange.

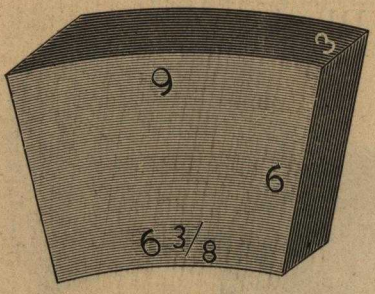
Cupola Blocks.



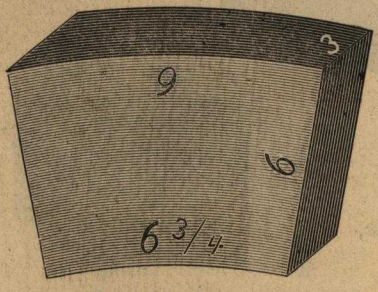
Diameter,	30	inches	inside,	39	inches	outside.
"	36	"	"	45	"	"
"	42	"	"	51	"	"
"	48	"	"	57	"	"
"	54	"	"	63	"	"
"	60	"	"	69	"	"
"	66	"	"	75	"	"
"	72	"	"	81	"	"

All other sizes made to order.

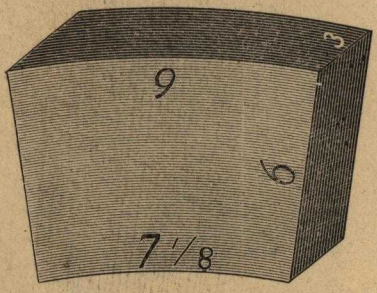
Cupola Blocks.



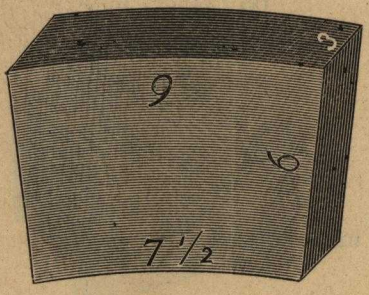
No. 1, Cupola Brick.
Diameter, 42 inches outside,
30 inches inside.
15 Brick to the Circle.



No. 2, Cupola Brick.
Diameter, 48 inches outside,
36 inches inside,
17 Brick to the Circle.

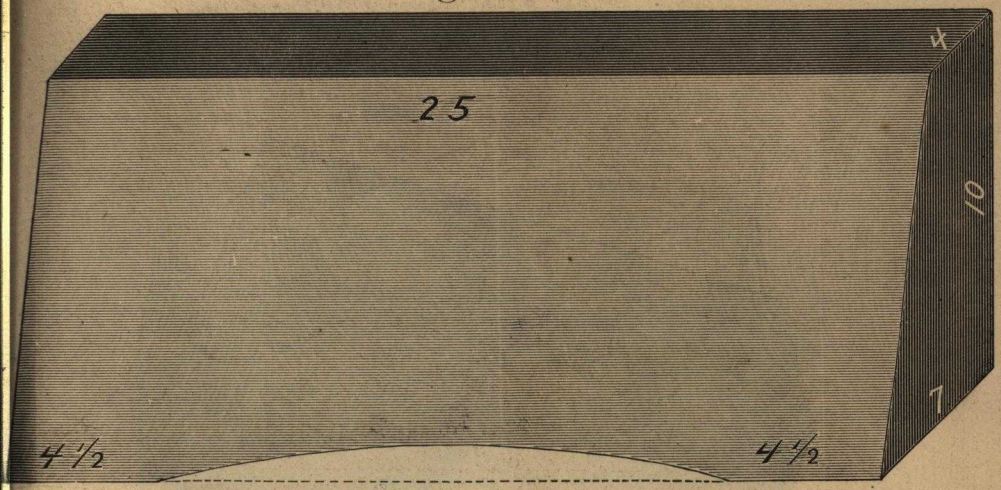


No. 3, Cupola Brick.
Diameter, 60 inches outside,
48 inches inside.
21 Brick to the Circle.

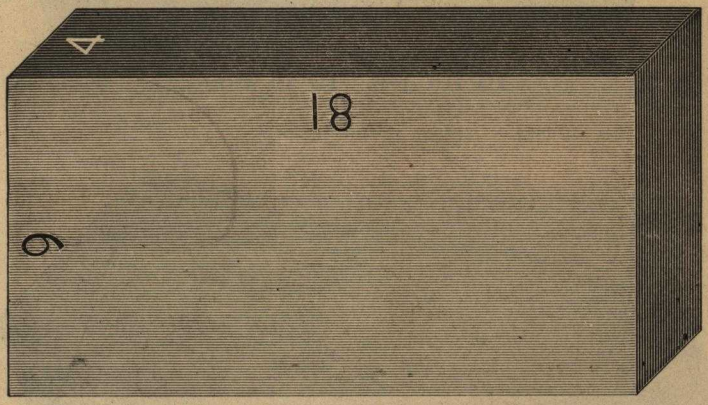


No. 4, Cupola Brick.
Diameter, 72 inches outside,
60 inches inside.
25 Brick to the Circle.

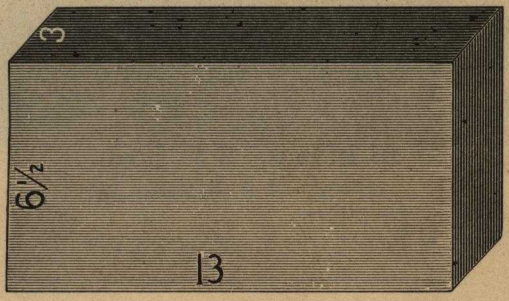
Rolling Mill Tiles.



Velvetry Tile.

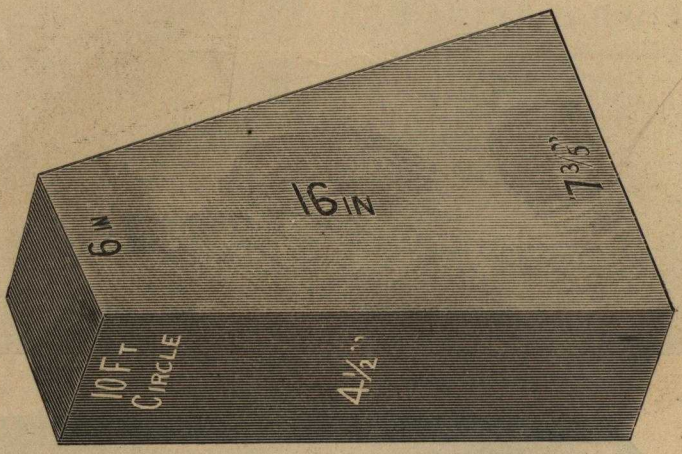


Stock Hole Tile.

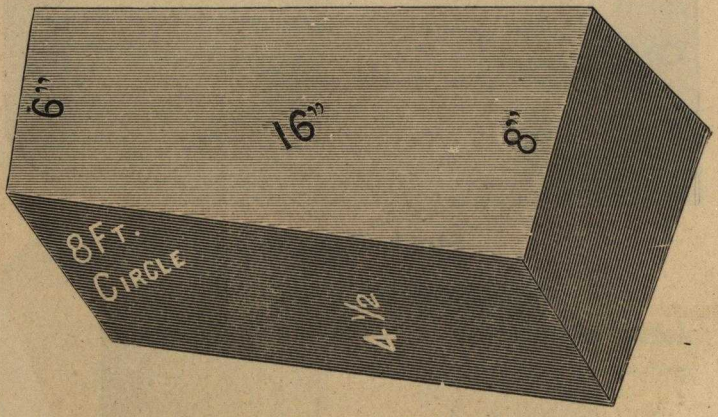


Bridge Block.

Blast Furnace Bosh.

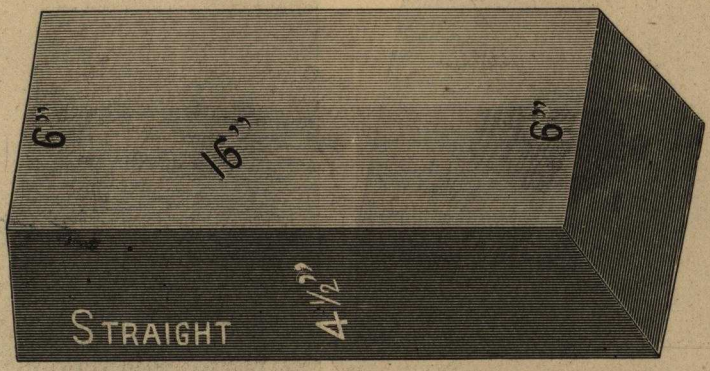


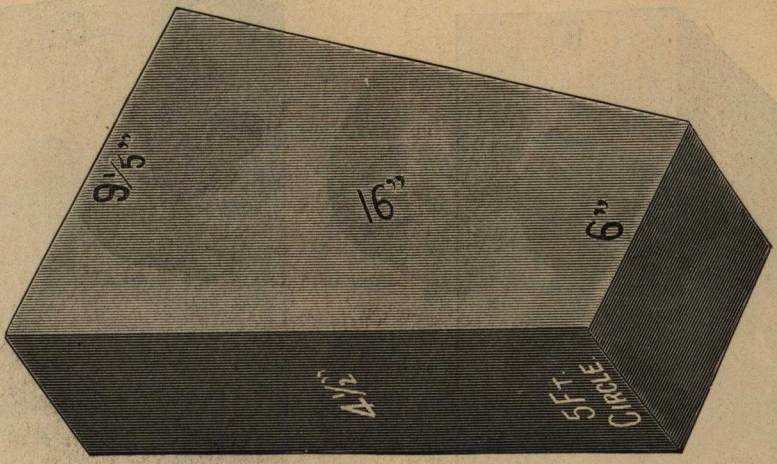
16 inches. 10 ft. Bosh.



16 inches. 8 ft. Bosh.

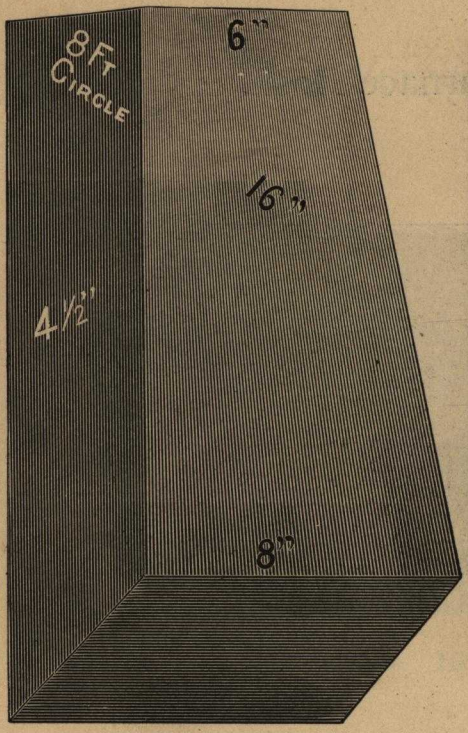
Blast Furnace Bosh.

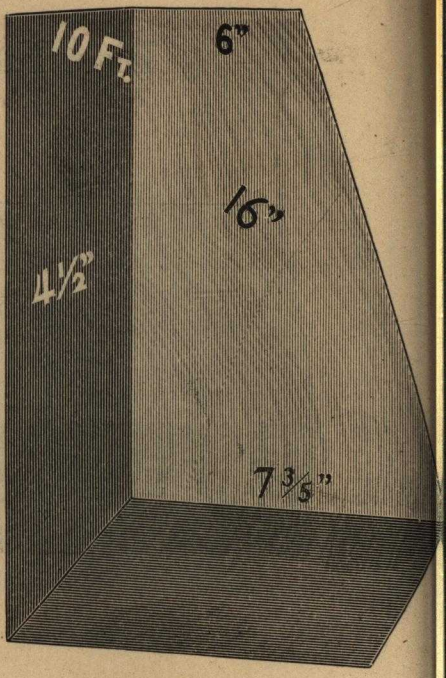


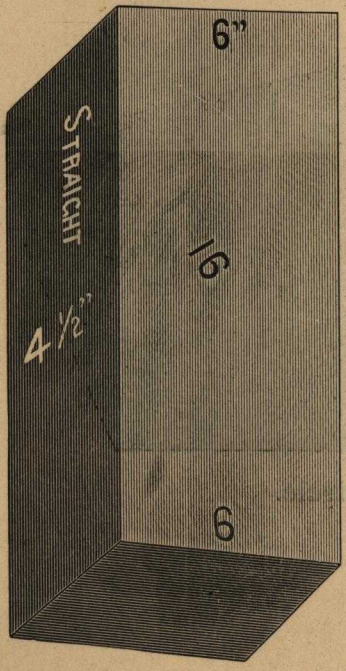


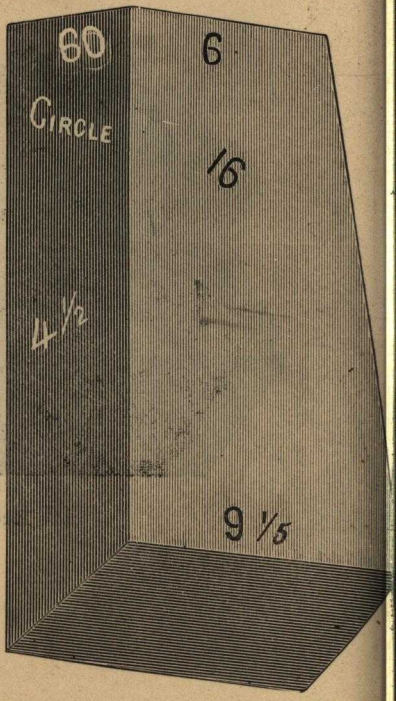
16 inches, 5 ft. circle.

Blast Furnace Linings.

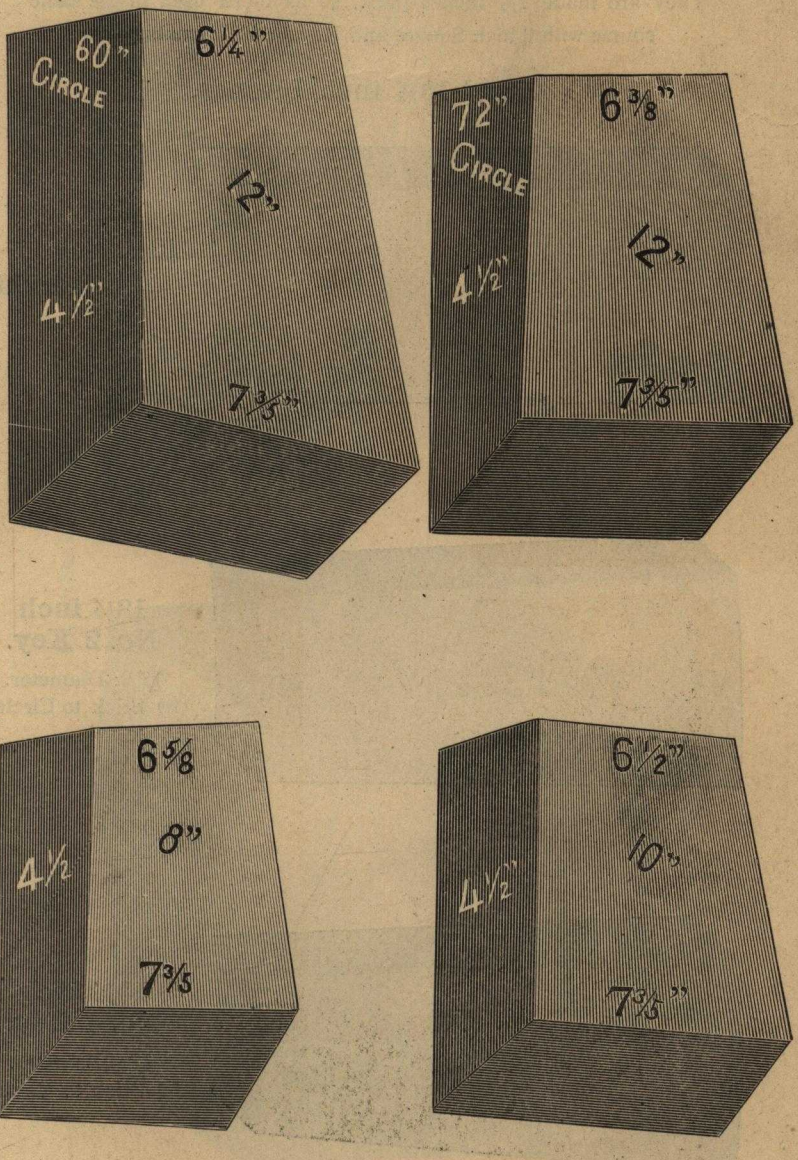








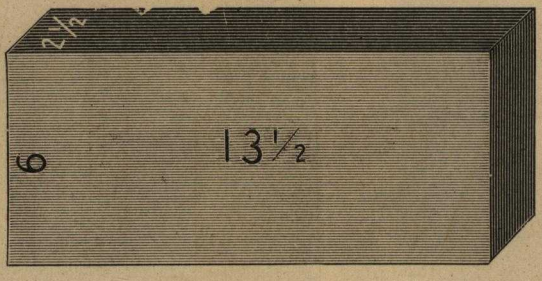
Blast Furnace Linings.



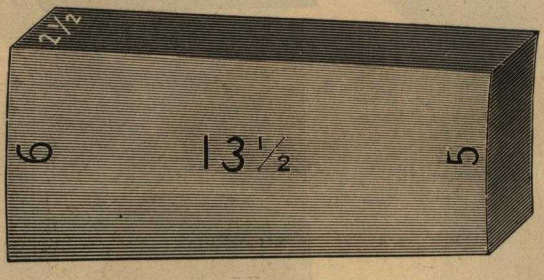
13½-inch Blast Furnace Lining Brick.

They are made 2½ inches thick, so as to be used in the same course with 9 inch Square and Key Brick, in making our

9 and 13½ inch Linings.

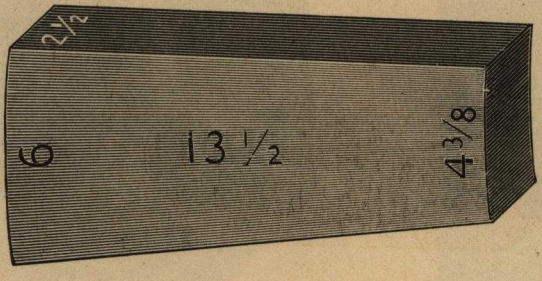


13½ inch Straight.



13½ inch No. 2 Key.

12 ft. Diameter.
90 Brick to Circle.



13½ inch No. 4 Key.

6 ft. Diameter.
52 Brick to Circle.

Blast Furnace Bottoms.

FURNACE BOTTOM, No. 1.
Two sizes, 12 and 24 in.

6½ inches in height.

FURNACE BOTTOM, No. 2.

SIEMEN'S

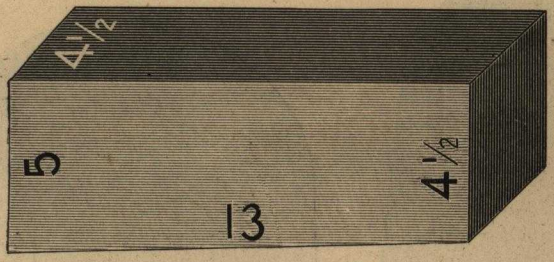
Crucible Steel Melting Furnace.

LIST OF SHAPES REQUIRED

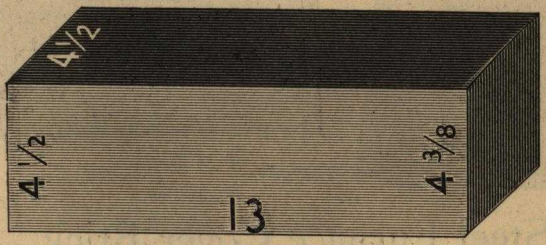
for one 6-pot Furnace.

No. A A,	- - - - -	4 Pieces.
No. A,	- - - - -	26 "
No. B,	- - - - -	18 "
No. C,	- - - - -	16 "
No. 3,	- - - - -	12 "
No. 4,	- - - - -	2 "
No. 5,	- - - - -	2 "
No. 6,	- - - - -	2 "

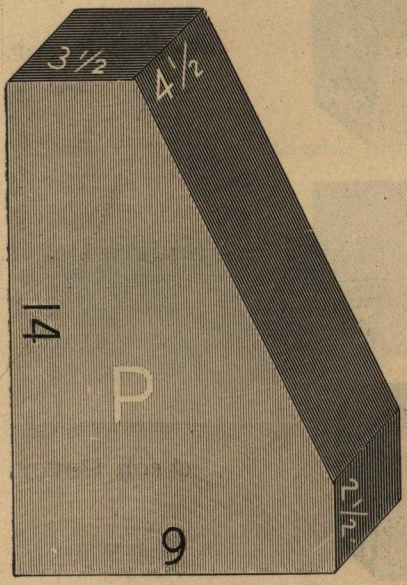
Siemen's Heating Furnace Blocks.



13 in. Wedge for Furnace Roof
All sizes made to order.

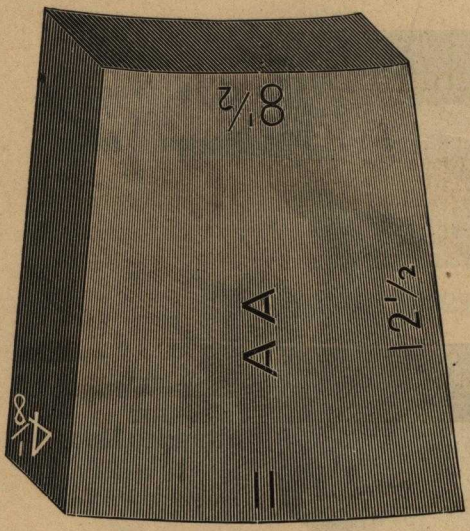


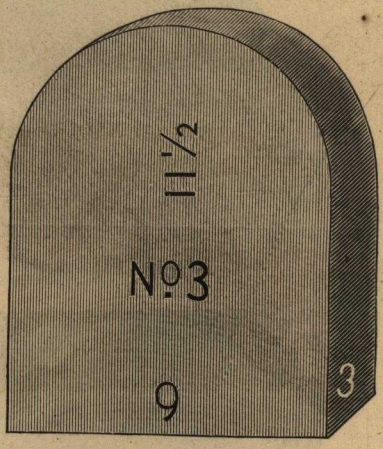
13 in. Wedge for Furnace Roof
All sizes made to order.



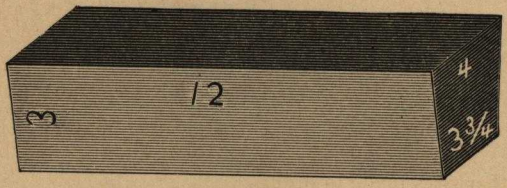
13 in. Skew for Furnace Roof
All sizes made to order.

Siemen's Steel Furnace Blocks.

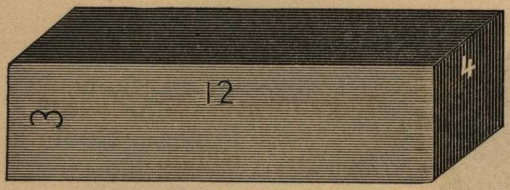




Siemen's Steel Furnace Cover Brick.



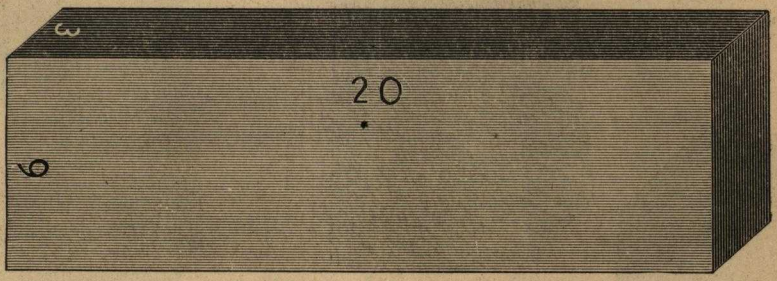
Bevel Cover.



Square Cover.

Arch Cover.

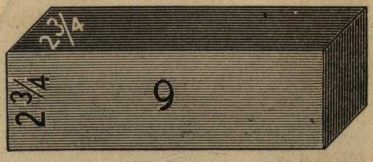
Siemen's Regenerator Tile and Brick.



The following sizes kept in stock:

16 x 6 x 3.
18 x 6 x 3.
19 x 6 x 3.
20 x 6 x 3.
21 x 6 x 3.
22 x 6 x 3.
24 x 6 x 3.
24 x 9 x 3.
26 x 9 x 3.

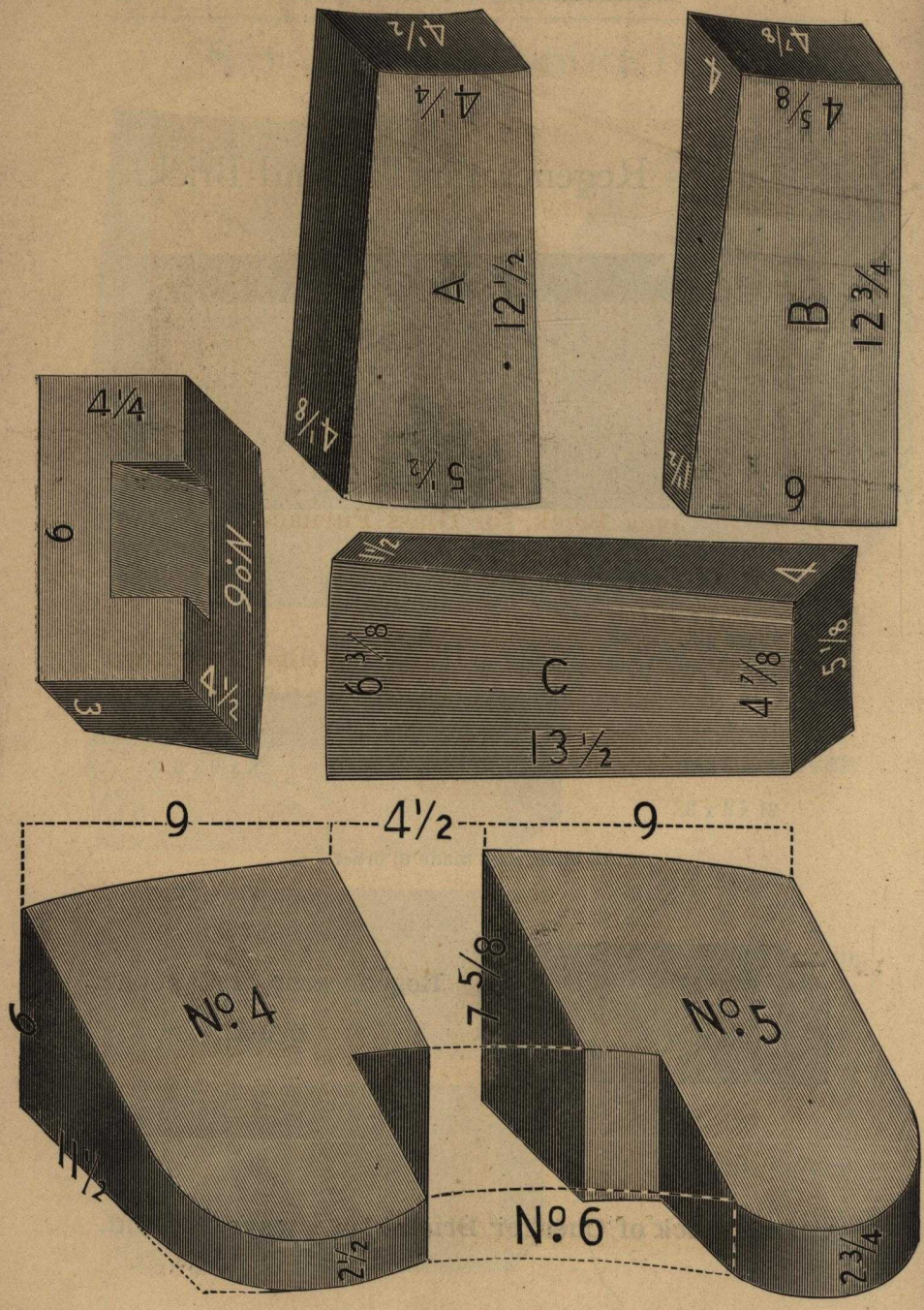
All other sizes made to order.



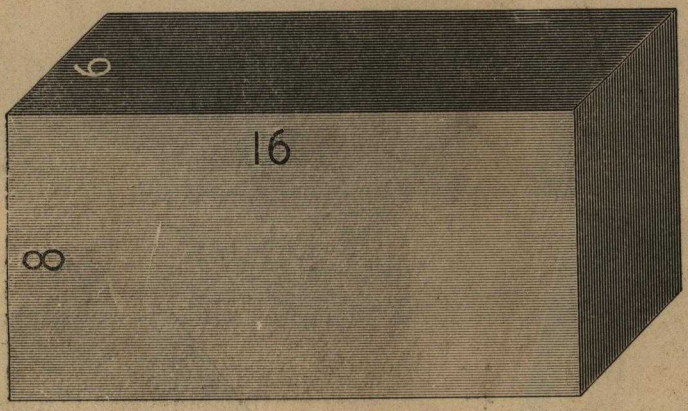
Regenerator or Checker Brick.

A large stock of Checker Brick kept always on hand.

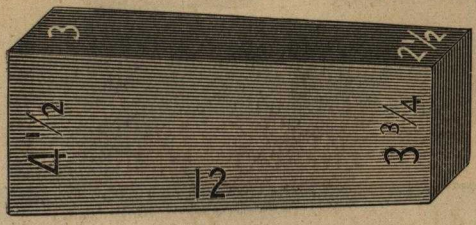
Siemen's Steel Furnace Blocks.



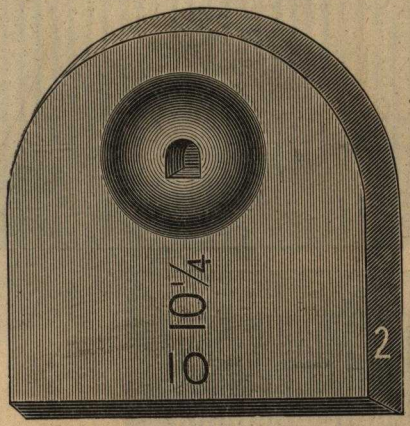
Glass Furnace Brick.



Jack Brick, for Glass Furnace.
All sizes made to order.

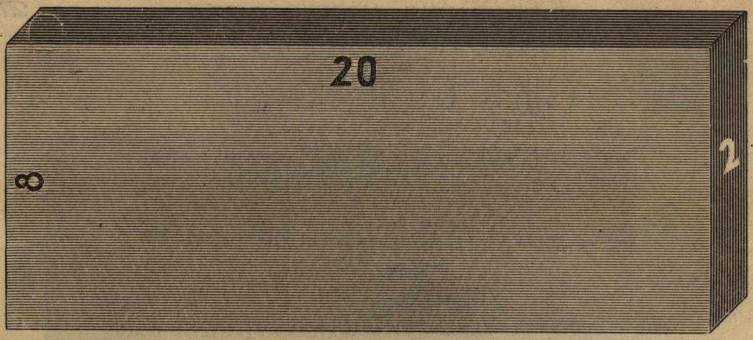


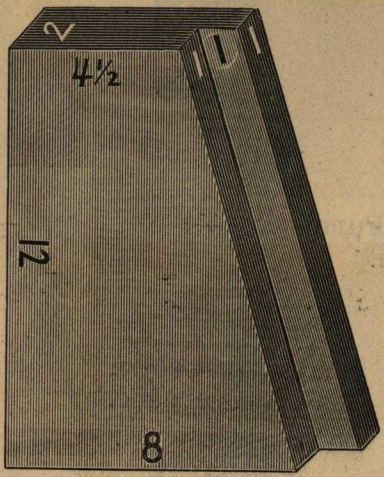
Wedge for Crown of Glass Furnace.
All sizes made to order.



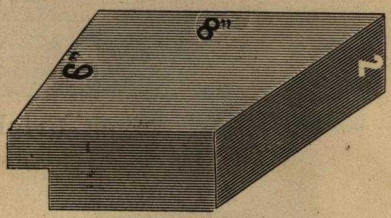
Glass Pot Stopper.
All sizes and styles made to order.

Tile for Fire Places.

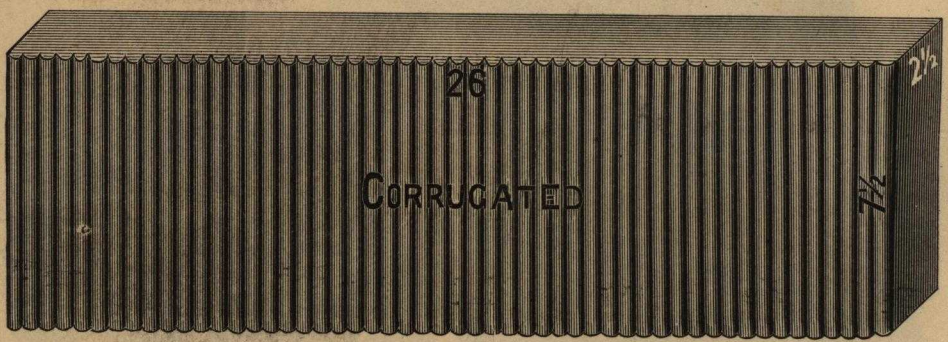




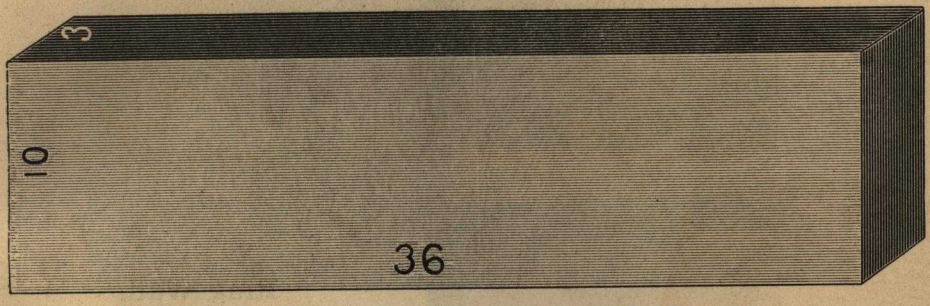
Cheeks Right and Left.
12x16 in. long.

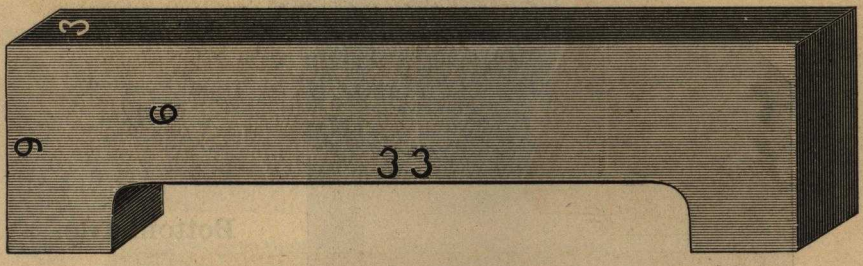


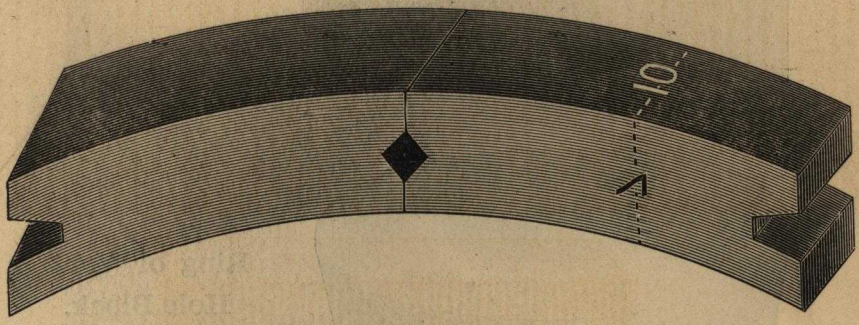
Tile of any desired pattern made to order.



Locomotive Fire Box Arches.

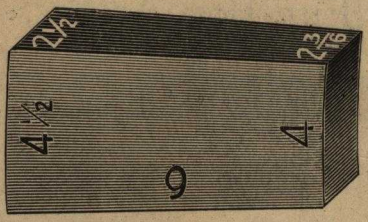




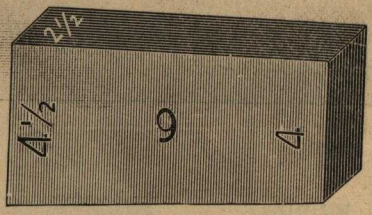


The above shapes are used in locomotive fire boxes.
We make to order any desired pattern.

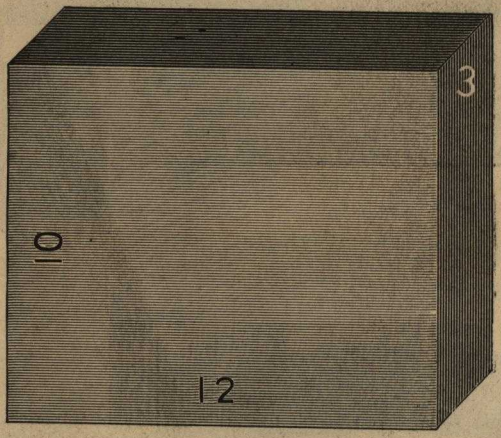
Coke Oven Brick and Tile.



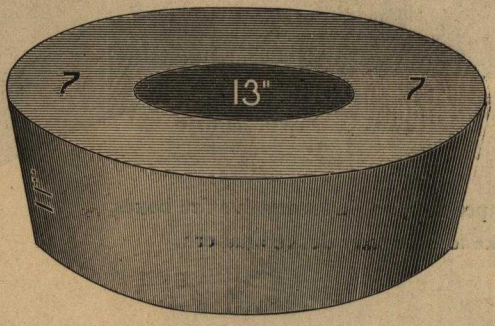
Crown Brick.



Ring Wall.

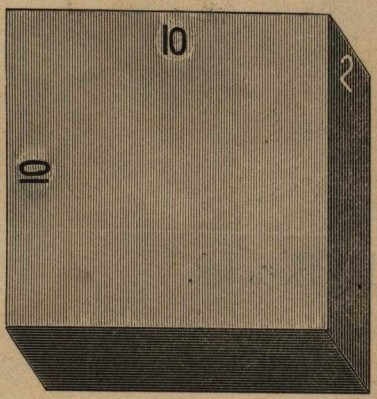


Bottom Tile.

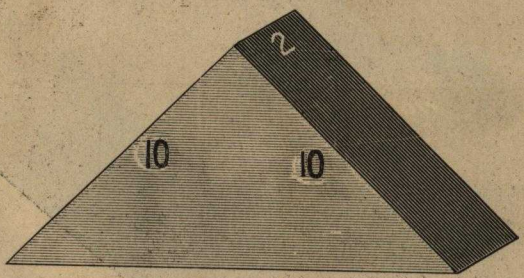


Ring or Vent Hole Block.

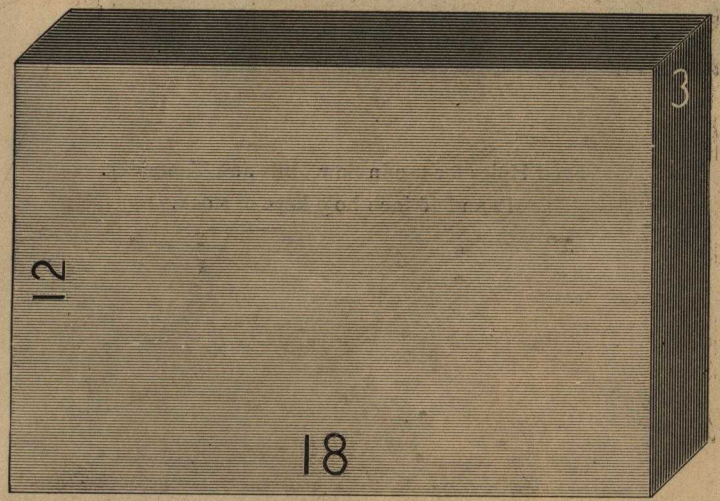
Coke Oven Brick and Tile.



Floor Tile.



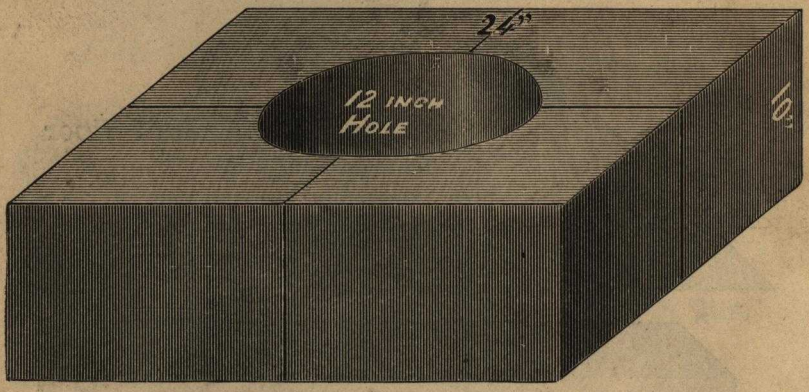
Half Floor Tile.



Slab.

Sizes kept on hand: 18 x 12 x 2, 12 x 12 x 2, 18 x 12 x 3, 12 x 16 x 3, 16 x 20 x 3.

Feed Hole Blocks.



Feed Holes for use in Saw Mills and Tanneries.
12 and 16 inch hole kept in stock.

Acme
Eureka
Clinton